	Application No.	Applicant(s)	
	10/657,799	TAKAGI, TAKESHI	(W)
Notice of Allowability	Examiner	Art Unit	/,-
	Phat X. Cao	2814	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	n this application. If not included unication will be mailed in due cou	urse. THIS
1. \boxtimes This communication is responsive to $\underline{5/16/05}$.			
2. 🔀 The allowed claim(s) is/are <u>1-15</u> .			
3. The drawings filed on 09 September 2003 are accepted by	y the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unas a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Horald Copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have * Certified copies not received: 	e been received. e been received in Applicatio	n No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requir	ements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or NOT declaration is deficient.	ICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of			ck) of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			e the
	•	•	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application (PTO-1	52)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	_	ummary (PTO-413),	02,
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./	Mail Date Amendment/Comment	
Paper No./Mail Date	· .		
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowa	nce
of Biological Material	9. 🗌 Other	_•	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The rejection based on Hammond et al '496 is withdrawn because of the certified English translation of the priority document submitted on 5/16/05. Therefore, the prior art of record fails to disclose all the limitations of a semiconductor device structure recited in the base claims, including the combination of the structure comprising: a cap layer, a channel region and an under-channel region provide in a semiconductor layer between a source region and a drain region in a descending order from an interface with a gate insulator, the under-channel region being of a second conductivity type; the cap layer and the under-channel region, each having a larger band gap than the channel region; and a bias electrode member applying a voltage to the under-channel region and being capable of applying the voltage independently of the gate electrode.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is 571-272-1703. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PC July 14, 2005

PHAT X. CAO
PRIMARY EXAMINER